

Premarket Notification 510(k) Summary

Assigned 510(k) Number: k060380

1. Submitted by:

Name. Contact Person Biomedical Diagnostics S A (bmd)

Christelle COURIVAUD

Address.

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Hoppe Regulatory Consultants

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2. Device Name

Trade/Proprietary Name:

FIDISTM dsDNA

Common Usual Name:

MX005 - FIDISTM dsDNA: Detection test of autoantibodies directed against double stranded DNA (dsDNA)

Classification Name:

Immunology and Microbiology Devices

3. Predicate Devices

510K Number K950031	Device Classification Name Vareliss dsDNA antibodies	Manufacturer Name Sweden Diagnostics, GHMH
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4. Intended use of the device

The FIDIS^{IM} dsDNA kit is a semi-quantitative homogeneous fluorescent-based microparticles immunoassays using flow cytometry readings. It is designed for the detection of antibodies directed against double stranded DNA (dsDNA).

The presence of these antibodies can be used to aid in the diagnosis of SLE.

5. Description of the Device

The assay kits consist of

- a vial of color-coded microspheres coupled with dsDNA
- a ready to use anti-human IgG coupled to phycoerythrin,
- a ready to use calibrator intered for the specificity.
- a positive control lgG to be diluted,
- a negative control to be diluted,
- a 10X concentrated PBS-Tween.

Rk Calibrators, positive and negative controls are diluted human sera

Summary of the technological characteristics of the device compared to the predicate device

The PHDIS™ System is a fully integrated and automated system for immunodiagnostic testing.

FIDISTM System comprised of FIDIS flow cytometer, XYP platform for automatic sampling into the analyser, the analyzer itself, a SD pump, some assay products and a software MLX-BOOSTER.

The FIDIS 14 dsDNA kit resembles traditional EIA and allows the detection and identification of antibodies against dsDNA

- Diluted patient sera and microsphere suspension are thoroughly mixed in the 96 well
 microtiter plate, dsDNA specific antibodies in the patient sera, if present, bind to the
 immobilised antigen on the heads. Any unbound material is removed by performing a
 wash step.
- Phycoerythrin-conjugated goat anti-human IgG is added to the plate and a further incubation performed. The conjugated anti-human IgG binds to the dsDNA specific antibodies immobilised on the microsphere surface to form an antigen/antibody complex

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3. The bead suspension is then analysed by the FIDIS™ Instrument and reactions are directly calculated in biological units using specific data software (MLX-BOOSTER).

The FIDIS® Instrument is able to distinct the specific code-colored of the microsphere and it could associated the microsphere type with the individual tested antigen. The ${\it FIDIS}^{\rm TM}$ instrument could quantify the fluorescence of the antibody captured by each microsphere. Measurement of the fluorescent signal from the final reaction complex allows the quantification of the presence or absence of autoantibudies.

It's a simple (just two steps) and quick (2 \times 30 minutes for the two incubations).

7. Testing

The comparability of predicate devices and new devices is supported by a data set including:

- results obtained within a comparison study analysing positive, equivocal and negative sera
- results obtained for samples from apparently healthy subject (normal population) results obtained for samples from samples with potential biological cross reactivity

8. Conclusions

in conclusion, all available data support that the new devices, FIDIS™ dsDNA kit is substantially equivalent to the predicate devices.

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DEPARTMENT OF HEALTH & HUMAN SERVICES





Food and Drug Administration 2098 Gaither Road Rockville MD 20850

Biomedical Diagnostics (BMD) SA c/o Ms. Christelle Courivaud Regulatory Manager Actipole 25 4-6 Bld de Beaubourg 77435 Marne La Vallée cedex2 France

MAY 2 2006

Re: k060380

Trade/Device Name: FIDIS™ dsDNA Regulation Number: 21 CFR 866.5100

Regulation Name: Antinuclear antibody immunological test system

Regulatory Class: Class II

Product Code: LSW Dated: January 30, 2006

Received: February 22, 2006

Dear Ms. Courivaud:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0484. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Robert L. Becker, Jr., M., Ph.D.

Director

Division of Immunology and Hematology Devices Office of In Vitro Diagnostic Device Evaluation and Safety Center for Devices and Radiological Health

Enclosure



510(k) Number (if Known): k060	0380
Device Name:	FIDIS TM dsDNA
Indications For Use:	
microparticles immunoassay us	a semi-quantitative homogeneous fluorescent-based ing flow cytometry readings. It is designed for the gainst double stranded DNA (dsDNA)
Clinical utility:	
	n samples as an aid in the diagnostic of systemic lupus tion with clinical findings and other laboratory tests.
The FIDIS™ dsDNA kit is to be	used on FIDIS TM Analyser, software and washer.
IF NEEDED)	LOW THIS LINE - CONTINUE ON ANOTHER PAGE
Concurrence of CDRH, Office of	
Professional Use	
Prescription Use X (Per 21 CFR 801.109)	OR Over-The-Counter Use (Optional Format 1-2-96)

Division Sign-Off

Office of In Vitro Diagnostic Device Evaluation and Safety

510(K) K060380